BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to drain and Asphalting to MES School Road in Ward No. 09 of Vidyaranyapura Sub Division.**

			Estimate Cost:						2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting								
	4th Main Road		2	410.00	0.45	0.35	129.15		
			2	190.00	0.45	0.35	59.85		
	Berm Cutting								
	4th Main Road		2	410.00	1.20	0.20	196.80		
			2	190.00	1.20	0.20	91.20		
							477.00	75.60	**36061.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 157 / Item No. 21.3 / PWD SR 2014-15**	Sqm							
	4th Main		2	410.00	1.20		984.00		
			2	190.00	1.20		456.00		
							1440.00	82.94	**119439.00**
	Basic Rate	76.80							
	Area Weightage @ 8%	6.14							
	Total	**82.94**							
3	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	4th Main Road		2	410.00	1.75	0.15	215.25		
			2	190.00	1.50	0.15	85.50		
							300.75		
	Consider 5% for Road Cutting						15.04		
							315.79	1438.56	**454279.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
4	KSRRB 500-1.1 : **Cleaning the existing WBM** road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **P. 157 / I. 21.1 PWDSR 2014-15**	Sqm							
	4th Main Road		1	410.00	7.00		2870.00		
			1	190.00	5.00		950.00		
							3820.00	12.20	**46619.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
5	KSRRB M500-6: **Providing and applying primer coat for surfaces of medium porosity** like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.5 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 04				3820.00		
	Basic Rate	69.00					**3820.00**	74.52	**284666.00**
	Area Weightage @ 8%	5.52							
	Total	**74.52**							
6	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	4th Main Road		1	410.00	7.00	0.025	71.75		
			1	190.00	5.00	0.025	23.75		
							95.50		
	Consider 10% For Depression Filling						9.55		
							105.05	11070.00	**1162904.00**
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							
7	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
			1	110.00		1.35	148.50		
							148.50	58.32	**8661.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
8	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 2				**148.50**	75.60	**11227.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
9	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2014-15**	Sqm							
			2	110.00		0.20	44.00		
							44.00	993.60	**43718.00**
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	**993.60**							
10	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	For Coping		2	110.00	0.20	0.10	4.40		
			1	110.00	0.60	0.10	6.60		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							11.00	5327.64	**58604.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	**5327.64**							
11	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13/ Item No. 4.11/ PWD SR 2014-15**	Cum							
			1	110.00	0.90	0.10	9.90		
							9.90	6065.28	**60046.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
12	KSRB 4.9.1: **Providing mild steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.45 / PWD SR 2014-15**	Qtl							
	Consider 80 Kg / Cum		0.80	9.90			7.92		
							7.92	7975.80	**63168.00**
	Basic Rate	7385.00							
	Area Weightage @ 8%	590.80							
	Total	**7975.80**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
13	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31/ PWD SR 2014-15**	Sqm							
			1	110.00	0.60		66.00		
							66.00	292.68	**19317.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
14	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. **Page No. 25 / Item No. 5.30 / PWD SR 2014-15**	Nos							
			1	110.00	=	110	244		
						0.45			
							244	304.56	**74448.00**
	Basic Rate	282.00							
	Area Weightage @ 8%	22.56							
	Total	**304.56**							
15	KSRB 15-17.5: Applying priming coat over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. **Page No. 115 / Item No. 15.59 / PWD SR 2014-15**	Sqm							
			1	110.00		0.35	38.50		
							38.50	33.48	**1289.00**
	Basic Rate	31.00							
	Area Weightage @ 8%	2.48							
	Total	**33.48**							
16	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. **Page No. 115 / Item No. 15.60.1 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No.				38.50		
							38.50	84.24	**3243.00**
	Basic Rate	78.00							
	Area Weightage @ 8%	6.24							
	Total	**84.24**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
17	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				357.75	73.57	26320.00
	Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloading charges Vide item no.17.1 P.no.130	63.00							
		68.12							
	Area Weightage @ 8%	5.45							
	Total	**73.57**							
18	Sub Total								2474009.00
19	For Third Part QC inspection Charges @ 1% of Estimate Cost								24740.00
20	Miscellaneous and other Charges	L/S							1251.00
								Total	2500000.00
(Rs. Twenty Five Lakhs Only)									

ADMINISTRATIVELY SANCTIONED FOR Rs R.25.00
Rupees Twenty five Lakhs only
Under P-1771
Registered as EE ( ) No 3.....9....
Subject to conditions contained in enclosed memo EE ( ) No /9/....
Dt Estimate A/Sanctioned No 1065/2014-15
dated 4-12-2014 Rs R.25.00

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 This work included under POW Grants 2014-15.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

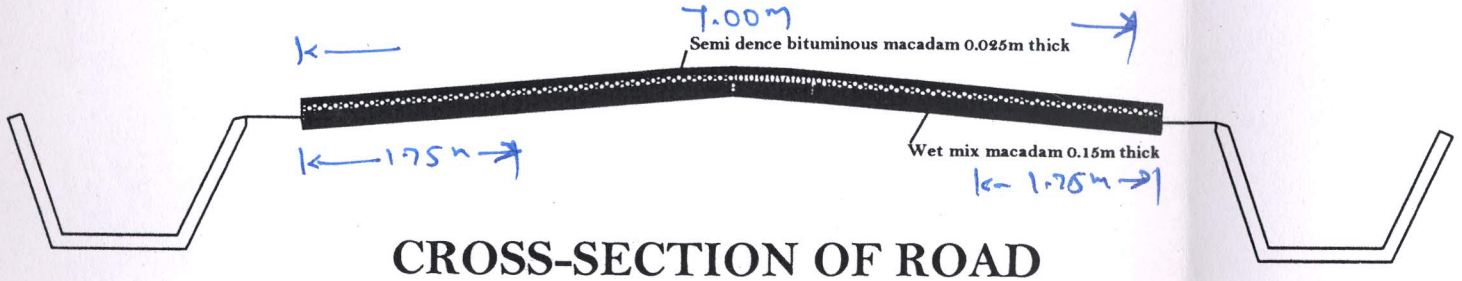
Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

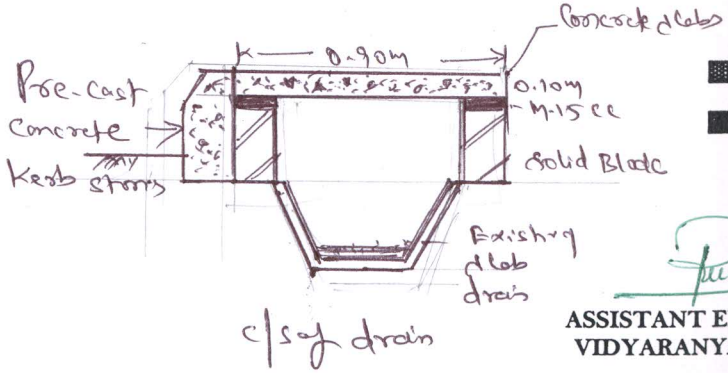
25.00 Lakh
Twenty five lakhs only
P-1771
Subject
contained enclosed memo.
Dt.
EE (BTP. Div.)

Technical
25.00 Lakh
Twenty Five lakhs only
P-1771
Registered as EE No. 07/29/10/14
to conditions contained
No. TS/EE/16/14-15 29/10/14
AEE/JE



CROSS-SECTION OF ROAD

"MES ROAD" 4th MAIN ROAD



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- Wet mix macadam
- Semi dence bituminous concret

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.